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# Trinity: supercomputing into the future

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## The need for 3D simulations has brought the Trinity supercomputer to Los Alamos

The nation's supercomputing capabilities have evolved in response to the needs of the Lab's nuclear weapons program delivering a safe, secure, and effective nuclear deterrent. Today, as the anniversary of the Trinity Test turns 70, the need for 3D simulations has brought the Trinity supercomputer to Los Alamos. Trinity—expected to be the second or third fastest supercomputer in the world—will make complex 3D simulations of nuclear detonations with increased fidelity and resolution practical. The first phase of Trinity's installation began in June.

**Welcome to Trinity and the dawning of *exascale* supercomputing!**

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